

Atty Docket No. JCLA7632

Serial No. 10/013,981

In The Claims:

1.(currently amended) A transmission method for identifying infrared transmission head functions through an infrared controller coupled to an infrared transmission head, said method comprising ~~said the following steps of:~~

setting said infrared controller in a test circuit mode;

selecting a test brand name and a its corresponding test transmission mode of the infrared transmission head among a plurality of brand names;

executing an operation of programming said infrared controller according to the test transmission mode corresponding to the test brand name of said infrared transmission head ~~and sending out transmission test data;~~

said infrared controller's sending out transmission test data corresponding to the test brand name to the infrared transmission head;

said infrared controller's receiving test data according to the test transmission mode corresponding to the test brand name of said infrared transmission head;

registering said test ~~brand~~ brand name and associated test transmission mode of said infrared transmission head when said transmission test data and said received test data are identical; and

operating said infrared transmission head according to the registered test brand name and test transmission mode of said infrared transmission head[.];

wherein said infrared controller's sending out transmission test data and said infrared controller's receiving test data occur concurrently.

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2. (currently amended) The transmission method of claim 1, wherein said method further includes repeating ~~said steps~~ of selecting a test brand name, executing an operation of programming said infrared controller, said infrared controller's sending out transmission test data, said infrared controller's receiving test data, and registering said test brand name when said transmission test data and said received test data are identical until all said brand names have been selected as a test brand name.
3. (currently amended) The transmission method of claim 1, wherein said infrared transmission controller supports ~~simultaneous~~ data transmission and reception simultaneously.
4. (original) The transmission method of claim 1, wherein said infrared controller further includes a direct access memory unit partitioned into two separate groups, one group is used for holding transmission test data while said other group is used for holding received test data.
5. (original) The transmission method of claim 1, wherein said infrared controller is enclosed within a South Bridge control chipset such that said South Bridge control chipset provides a few leads to serve as terminals of said infrared controller for data transmission and reception.
6. (currently amended) A transmission method for identifying infrared transmission head functions, comprising said steps of:

 ~~providing~~ coupling an infrared controller ~~coupled~~ to an infrared transmission head;

 programming said infrared controller and executing said infrared controller's

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sending out transmission test data to the infrared transmission head;

said infrared controller's receiving reception test data from the infrared transmission head ; and

registering said test a brand name and associated its corresponding test transmission mode of said infrared transmission head when said transmission test data and said reception test data is identical[.];

wherein said infrared controller's sending out transmission test data and said infrared controller's receiving test data occur concurrently.

7. (currently amended) The transmission method of claim 6, wherein said infrared controller supports ~~simultaneous~~ data transmission and reception simultaneously.
8. (original) The transmission method of claim 6, said infrared controller works under a test circuit mode.
9. (currently amended) The transmission method of claim 6, wherein said step of said infrared controller's sending out transmission test data is based on said test transmission mode corresponding to the test brand name of said infrared transmission head.
10. (currently amended) The transmission method of claim 6, wherein said step of said infrared controller's receiving reception test data is based on said test transmission mode corresponding to the test brand name of said infrared transmission head.
11. (currently amended) The transmission method of claim 6, wherein said method further includes selecting test brand name and ~~associated test~~ its corresponding transmission mode among a plurality of brand names.

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12. (currently amended) The transmission method of claim 6 11, wherein said method further includes repeating said steps of selecting a test brand name, said infrared controller's sending out transmission test data, said infrared controller's receiving test data, and registering said test brand name when said transmission test data and said received test data are identical until all said brand names have been selected to serve as a test brand name.
13. (original) The transmission method of claim 6, wherein said infrared controller further includes a direct access memory unit partitioned into two separate groups, one group is used for holding transmission test data while said other group is used for holding received test data.
14. (original) The transmission method of claim 6, wherein said infrared controller is enclosed within a South Bridge control chipset such that said South Bridge control chipset provides a few leads to serve as terminals of said infrared controller for data transmission and reception.